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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA B18Ag1

rea	GAG ACK Giu Thr					sp Pro					ly	GGA 15	48
GGC Gly	AGA AC Arg Thr	T TTT Phe A 20	sp Asp	I TTC I Phe Hi	CAC CG s Arg T	G TAT Tyr Leu 25	CTC Leu	CTC (Val	GTG Gly I	GGT A le Gin 3	Ĺ	CAG	96
GG# Gly	GCT GC Ala Ala 3	C CAG Gin Ly 5	AAA CC s Pro lik	T ATA a Asn	AAC TI Leu Ser 40	G TCT Lys /	AAG Via ili	GCG e Glu	Val	GAA (Val 5	atc	GIC	†44
	GGG CA Gly His 50								u Gi			GAG	192
GCT Ala 65	TAT CGO Tyr Arg	3 ATT lie Tyr	Thr Pr	CCT ' c Phe 70	TTT GAC Asp Le	CTG u Ala .	Ala P	GCC ('ro Gl '5	CCC u As	GAA / n Ser	IA		240 80
CAT His	GCT CTT Ala Leu	i aat Asn L	TTG GCA eu Alo 1 85	TTT (The Yo	atg gct Alg G	lo Alo	GCA Alg IO	GCC (Pro A	CCA sp S	GAT A er Ly:	5	AAA 95	288
	AAA CTI	C CAA	AAA CT		GGA TI	TIGC	TGG	AAT	GAA	TAC (CAG	TCA	338
Arg	Lys Leu	6ln L: 100	ys Leu I	Slu Gly	Phe C						ŗ		
GCT	Lys Leu TTT AGA Phe Arg	100 GAT	AGC CTA	. AAA	Phe C I GGT TTI	ys Trp C5	Asn		lyr G	in Se 110	ŗ		383
GCT	TIT AGA	100 GAT Asp S	AGC CTA Ser Leu VUCZEOT	. AAA : Lys Gi; :DE SE:	Phe C I GGT TTI Phe 120	ys Trp (05 ·	Asn 1	Glu T Tig. PRES	fyr G $$	in Se	ŗ		
GCT	TIT AGA	100 GAT Asp 5	AGC CTA Ser Leu VUCLEOT BRE:	. AAA Lys Gij DE SEI AST-TU	Phe C 1 GGT TTI 7 Phe 120 120 QUENCE IMOR SF	ys Trp 05 · OF TH PECIFIC	Asn I ie Re con	Glu 1 7 <i>ig.</i> :PRES: A B17	fyr G $ heta$ ENTA $^\prime$ Ag1	In Se 110	r)		
GCT Ala	TTT AGA Phe Arg	100 GAT S ASP S 5	AGC CTA Ser Leu NUCLEOT BREA GGCTCA	LAAA Lys Gi) IDE SE AST-TU	Phe C I GGT TTI Y Phe 120 UENCE IMOR ST	ys Trp 05 · OF TH PECIFIC	Asn I HE RE CON ACCG	Glu 1 7 jg. [PRESI A B17	fyr G B ENTA 'Agt AG /	In Se 110 IIVE VGGCT	r Cag		363
GCT Ala GC	TIT AGA Phe Arg 11	100 GAT : Asp : 5	AGC CTA Ser Leu VUCLEOT BRE: GGCTCA AGATTTI	LYS GI LYS GI DE SE AST-TU TACC CAAG	Phe C GGT TTT Phe 120 QUENCE IMOR SE TGTAAT	ys Trp 05 * OF TH PECIFIC CCTG	Asn I HE RE CON ACCG	Glu T FRESI A BIT TITC	fyr G $^{\prime}$ ENTA $^{\prime}$ Ag1 $^{\prime}$ AG $^{\prime}$	In Se 110 IIVE IGGCT	, CCT	AT	363 60

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA 817Ag2

GC TTGGGGGGTT TGACTAGAAA TTCAASGAAC CTGGGATTCA AGTCCAACTG 60
AC TTACACTGTG GIKTCCAATA AACTGCTTCT TTCCTATTCC CTCTCTATTA 120
AA GGAAAACGAT GTCTGTGTAT AGCCAAGTCA GISTATCCTAA AAGGAGATAC 180
AT TAAATATCAG AATGTAAAAC CTGGGAACCA GGTTCCCAGC CTGGGATTAA 240
CA AGAAGACTGA ACAGTACTAC TGTGAAAAGC CCGAAGINGGC AATATGTTCA 300
TT GAAGGATGGC TGGGAGAATG AATGCTCTGT CCCCCAGTCC CAAGCTCACT 360
CT CCTTTATAGC CTAGGAGA

Fig. θ

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA 813Aq2a

GE CTATAATEAT GETTCICATT ATTITCACAT TITATEAACC AATTICEGTE 60

AA AATATGAGGG AAATATATGA AACAGGGAGG CAATGTTCAG ATAATEGATE 120

TG ATTICTACAT CAGATGCTCT TTCCTTTCCT GETTATETCC TTTTTATETC 180

GG TCGAATGTAA TAGCTTTGTT TCAAGAGAGAG GETTTGGGCAG TTTCTGTAGC 240

CT GCTCATGTCT CCAGGCATCT ATTTGCACTT TAGGAGGTGT CGTGGGAGAC 300

CT ATTITTTCCA TATTTGGGCA ACTACTA 337

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B13Aq1b

GC CATALAGTGC CTTTCEATIT ATTTAACCEC CASCTGAASG GCATAAASTG GE TGGTGTYTYY YACTGYAAAC AATAAGGAGA CTTYGETETT (ATTTAAACE AT TICATATITI ACCCICGAGG GITTITTACCG GITCCTITITI ACACTCCTTA 180 TT TAAGTEGTTT GGAACAAGAT ATTTTTTETT TEETGGCAGE TTTTAACATT 240 TT TGTGTCTGGG GGACTGCTGG TCACTGTTTC TCACAGTTGC AAATCAAGGC 300 EC AAGAAAAAA AATTITTITG TITTATTIGA AACTGGAEGG GATAAAEGGT 360 CG GCTGCTGTAT ATAGTTTTAA ATGGTTTATT GCACCTCCTT AAGTTGCACT 420 GG GGGGNTTTTG NATAGAAAGT NTTTANTCAC ANAGTCACAG GGACTTTTNT 480 NA CTBAGCTAAA AAGGGETGNT TTTCGGGTGG GGGCAGATGA AGGCTCACAG - 540 TE TETTAGAGGG GGGAACTNET A 571

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B13Ag10

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TT TECAAAAAGC ATAAAASEAA AGTATEATAE CAAASEAAAT TEATAETGEI	f 120
CE GEAETGANAE TIEACETTET AACTGTETAC CTAACEAAAT TCTACEETTE	180
GO TGCGTGCTCA CTACTCTTTT TTTTTTTTTT TTTNTTTTGG AGATGGAGTC	240
CA GCCCAGGGGT GGASTACAAT GGCACAACCT CAGCTCACTG NAACCTCCGC	300
TT CATGAGATTC TCCTGNTTCA GCCTTCCCAG TAGCTGGGAC TACAGGTGTG	360
TG CCTGGNTAAT CTTTTTINGT TITNGGGTAG AGATGGGGGT TTTACATGTT	420
TG GTNTCGAACT CCTGACCTEA AGTGATCCAC CCACCTCAGG CTCCCAAAGT	480
TA CAGACATGAG CCACTGNREC CAGNECTGGT GCATGETCAE TTCTCTAGGC	540
Fig. 11	

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA 811Ag1

TG CACATGRAGA ATATTETATE GGTACTTCAG CTATTACTCA TITTGATGGC 80 AG CCTATCETEA AGATGAGTAT TTAGAAAGAA TTGATTTAGE GATAGACEAA 120 SC ACTUTEACTA CACEAAATTE TICAGATETE ATGEATITAT EACAETTEAT 180 GA GATTATTAAG TGATTATTTT AAAGGGAATC CATTAATTCC AGAATATCTT 740 TC AAGATGATAT AGAAATAGAA CAGAAAGAGA CTACAAATGA AGATGTATCA 300 TA TTGAAGAGEE TATAGTAGAA AATGAATTAG ETGEATITAT TAGEETTAEA 360 TT TYCCTGATGA ATCTTATATT CABICATEGA CATABLATTA CCTGATGGGC 420 SA ATAATAGAAA (TGGGTGCGG GGCTATTGAT GAATTCATCE NKAGTAAATT 480 AC AAAATATAAC TCGATTGCAT TTGGATGATG GAATACTAAA TCTGGCAAAA 540 GG ASCIACIAGI AACCICICII ITIGAGAIGC AAAATITICI ITIAGGGTTI CT ACTITACGGA TATTGGASCA TAACGGGA 638

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST—TUMOR SPECIFIC CDNA B3CA3c

ACTGATGGAT GTCGCCGGAG GCGAGGGGCC TTATCTGATG CTCGGCTGCC TGTTCGTGAT 60
GTGCGCGGGG ATTGGGCTGT TTATCTCAAA CACCGCCACG GCGGTGCTGA TGGCGCCTAT 120
TGCCTTAGCG GCGGCGAAGT CAATGGGCGT CTCACCCTAT CCTTTTGCCA TGGTGGTGGC 180
GATGGCGGCT TCGGCGGCGT TTATGACCCC GGTCTCCTCG CCGGTTAACA CCCTGGTGCT 240
TGGCCCTGGC AAGTACTCAT TTAGCGATTT TGTCAAAATA GGCGTG 286

Fig. 13

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CDNA B9CG1

AG CAGCCCCTTC TTCTCAATTT CATCTGTCAC TACCCTGGTG TAGTATCTCA 60

CA TTTTTATAGE CTCCTCCCTG GTCTGTCTTT TGATTTTCCT GCCTGTAATC 120

AC ATAACTGCAA GTAAACATTT CTAAAGTGTG GTTATGCTCA TGTCACTCCT 180

AA ATAGTTTCCA TTACCGTCTT AATAAAATTC GGATTTGTTC TTTNCTATTN 240

CA CCTATGACCG AA 262

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CDNA 89CG3

AG CAAAGCCAGT GGTTTGAGCT CTCTACTGTG TAAACTCCTA AACCAAGGCC 60

TA AATGGTGGCA GGATTTTTAT TATAAACATG TACCCATGCA AATTTCCTAT 120

GA TATATTCTTC TACATTTAAA CAATAAAAAT AATCTATTTT TAAAAGCCTA 180

AG TTAGGTAAGA GTGTTTAATG AGAGGGTATA AGGTATAAAT CACCAGTCAA 240

TG CCTATGACCG A 261

Fig. 15

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA B2CA2

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CGGCCAGCCA GEGGAACGGT TGCCCGGATG GCGAAGCGAG CCGGAGTTCT TCGGACTGAG 120
TATGAATCTT GTTGTGAAAA TACTCGCCGC CTTCGTTCGA CGACGTCGCG TCGAAATCTT 180
AATCATGGTT GAGCCGGATG CTGCCCCCGA AGCCCT 276

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC cDNA B3CA1

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TGTTTTCCAG GATTTTCAAC CAGTCGGTCT GGCCGTTCTC ATGGAGCGAG AGCGCCTTGC 120

CCAGCTCATT TTCCAGCGCC TCGTATTCGC TGGAAAAACG CACATCCTCA CCCGCAAAGA 180

CATCCTTTGA AATCGGCTGT TCCGCGAGGTT CCAGATANTG CGAGGAGAGC TTGCTCGAAT 240

AGGTCATCCT AACCCTTCAA TGCACACCAT GTGCGCCAAT GAATATCTTA ACAATTCAAC 300

TAGTTGGCAT AANAACCGAA CGAAAATCCC AATAGTCTGA AGAGCTCTTT TG 352 Fig.~17

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA B3CA2

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TTCCCGACCA GGCCCAGCAG GATGTGTGGG GCAAGGATAA CGGCGTGCGC ATCGCCTCGA 120

CCTATATGCC TACTGGCAAG GCCGAGCCCG TGGAAGGCGG ATTCAGGTTC ANCGGTCGCT 180

GGAGCTTTTC CACCGGCTCC ATGCATTGTG ACTGGCTGTT TCTAGGCGGT CTGTTGCCCA 240

ASCGTGATGG TACGTCTGGC CTGGAGCATG TGACTTTCTG 220

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NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST—TUMOR SPECIFIC CONA B3CA3

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CT GTCGCCGGGG ATGGTGGAGA ACTGAAGCGG GACCTCCTCG AGGTCCTCCG 120

TC NCCGTCCASG AGGAGGGTCT TTCCGTGGTC TNGGAGGAGC GGGGGGAGAA 180

TC ATGGTCNACA TCCC 204

Fig. 19

NUCLEOTIDE SEQUENCE OF THE REPRESENTATIVE BREAST-TUMOR SPECIFIC CONA B4CA1

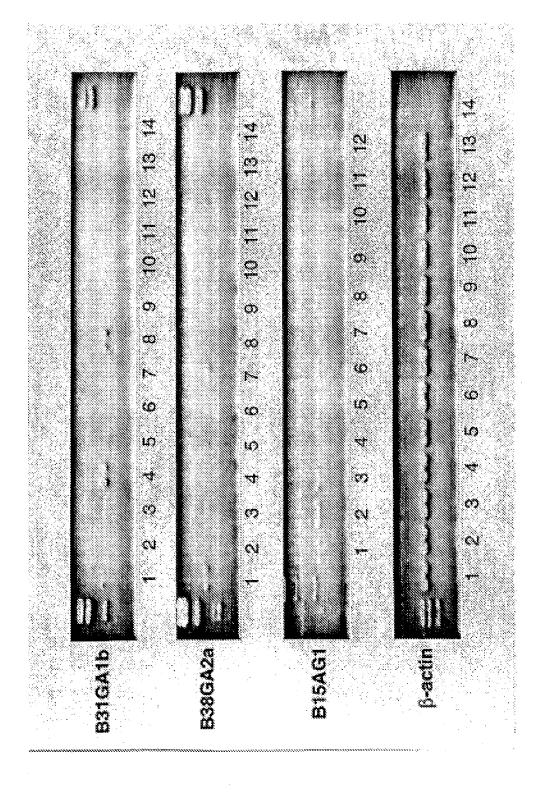
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CC AATCGCATGG ACATGTTAGA CTTATTTTCT GTTAATGATT NCTATTTTTA 180

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GC TTAGTATGTG ACCA



TR. CLA

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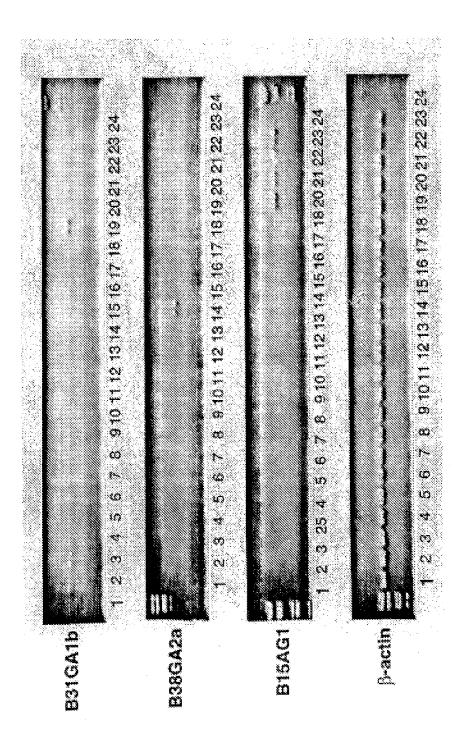


Fig. 21B

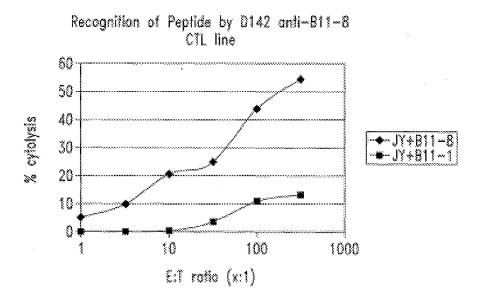


Fig. 22

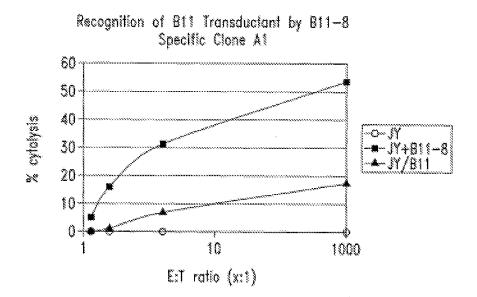
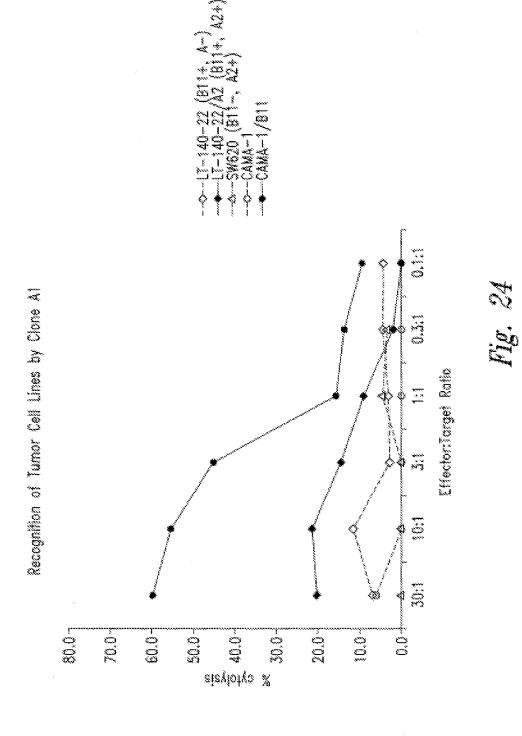


Fig. 23



3

SECUENCE LISTING

<110> Coriza Corporation Frudskis, Yony S. Beed, Steven G. Smith, John M. Wisher, Linds E. Dillon, Davin C. Retter, Marc W. Wang, Aijum Skeiky, Yasir A.W. Harlocker, Susan L. Day, Craig H. <120> COMPOSITIONS AND METHODS FOR THE THERAPY AND DIAGNOSIS OF ESEAST CANCER <130> 210121.419309C <140> ECZ <141> 2001-05-22 <160× 334 <170> FastSEQ for Windows Version 3.0 <310> 1 <211> 363 <212> DMA <213> Romo sapien <400> 1 ttagagacco aattgggacc taattgggac coaaattict caagtggagg gagaactitt 60 gacqattico accqqtatot octoqtqqqt attoaqqqaq otqcocaqaa acctatasac 120 tigtotasgg ogattgaagt cgiccagggg catgatgagt caccaggagt gttittagag 280 cacciocagg aggottatog gaittacase cetitiques tygoagseco egasaatage 240 catgototta attiggoatt tgiggotoag geageoceag atagtaaaag gaaseteesa 300 searchagagg gaittigctq gaatqaalac caqtcagctt ttaqaqabag octasaasggt 360 363 <210> 2 <211> 121 <212> PRT <213> Homo sapism <400> 2 5 1.0

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                                       7.5
His Ale Lou Ash Lou Ala Phe Val Ala Gin Ala Ala Pro Asp Ser Lys
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                                                                     799
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                                                                       780
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                                                                      900
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                                                                      300
tamicotine temanamam emotomico emeticione camainiini camesacers
                                                                      360
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connecement accomment tenestment interment materials comments.
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constaunte minemenni contetnina cotemanni encincaent intetectes
                                                                      480
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intenentic atcominent incinions uncontains incominint einentance
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associated gagiators gittadigti agatespect estiterett ecoclocus
                                                                     3.28
atggigtita asiccagota castacitos tgastcaaas teesetatte etgiteatga
                                                                     2.80
otgicaggaa ciqtiggaaa ciacigaaac iggoogacci gatoticaaa aigigcooci
                                                                     240
aggasaggig gaigocacog iglicacaga caglaconec licelogaga agggaciacg
                                                                     300
```

```
aggagooggt geanchytta ocaaggagac thatgtytty tyggctcagg ottlaccanc-
                                                                                                                       360
sascacetes nemennaagg etgastigst egeceteset eaggeteleg categogetas
                                                                                                                       420
gypstatias ogtiascact gadagdaggt acgoditigd tactgigdat giacotgosd
cratriaces ggagogiggy ciaciosole ggeaggigge tythateese tgissanggs
                                                                                                                       540
catcasasgy sasscnnggo tgitgccogt ggtasccans sencigates neagctonas
                                                                                                                       600
gatgotgigt tgactitcae temenectet taaactiget goommoante tectteecs
                                                                                                                       660
accegatoty cotgacasto cocatactos assassasan essectygoc cogascoons
                                                                                                                       720
accestess acggggingg inggingsho incoinsect assatisht galococog
                                                                                                                       280
gotgoaggas ttcaattosm cottatomat acoccossom nggngggggg ggeengtmee
                                                                                                                      840
cattaccost atattacits ttinaccoss ecocogeni cottitinas ciestasase
                                                                                                                       900
ggasaaccig nottaccash tistoscolg gaconicoco liconoggin quilanassa
                                                                                                                      880
asaagcconc antocontor neamitigom engammagna megamitham cottiniti
                                                                                                                     1020
tinofectit antitginnn coccettita cecaggegas engecatent tiasmasasa
                                                                                                                     1080
asabagaang titatitiic otingaacea tecesatana aanexeeege nggggaacgg
                                                                                                                     1140
ggnggnaggs chetcaccos ettintetne gngggne
                                                                                                                     1177
          <220> 9
          <211> 1146
          <212> DWA
          <213> Somo sapien
          <228>>
          <221> misc_festure
          <222> (1)...(1146)
          <223> n ~ A.T.C or G
          <400> 9
normnttmmt gatgifigiot tilitggodio tottiggsta citicocto: citeagaggg
                                                                                                                        60
generage to see agree of the capto at consects groce at the agree of the consects of the conse
                                                                                                                       120
agactocato agtgaggtoa aagootgggg ottitoagag aagggaggat tatggggtitt
                                                                                                                       280
coastratac segteasac tagasespase geachiaaac cageaagege gtoppagest
                                                                                                                       260
catcaccoaq agggasitgi goctototoa giggiagtaq aggagciact tootocacc
                                                                                                                       300
acqqttqcaa ccaagaggca atgqqtyatg agcotecagg qqacatanoc qaqqagacat
                                                                                                                       360
gggalgacon taagggagla ggolggillt aaggogglgg gactggglga gggaaactol
                                                                                                                      620
colottotto agagagaago agtavagggo qagetqaaco qqetgaaggt ogaggegaaa
                                                                                                                      480
acacystoty gotoagosay accttygasy tassattaty astgytycst gastgyagon
                                                                                                                      540
atggaagggg tgctctgac caaactcagc cattgatcaa tgttagggaa actgatcagg
                                                                                                                      600
gaagooggga atttoattaa osacoogoca cacaçottga acattgtgag gttcagtgac
                                                                                                                      $69
cottomaggy goosciocac tocascitty gocaticisc titigenessi ticessaset
                                                                                                                      720
tockttitta sygoogaabo ontantooot nassaannaa asaaasety encetattet
                                                                                                                      780
ggassaggor cancoottae caqqotqqas qasattline otttilitt ittttgagg
                                                                                                                      849
onttinitae attgaaccin aationooco occasaasaa aacconceng ggggggggat
                                                                                                                     900
Elecasase nastheorth accassase sassaceme outlittee themsects
                                                                                                                      960
ticititaat tagggagaga inaageecce eaatticong gootngainn gittoccoce
                                                                                                                    1020
cooccatitt conssactit ttopcanona ggasnoonce ettitittma gtemmatina
                                                                                                                     1080
aceacctice associatit tecomassas nittgmings maggassass accimitati
                                                                                                                    1140
assets
                                                                                                                    1148
          <210> 10
          <211> 565
          <212> DNA
          <213> Homo sapien
          <400> 10
cttcattggg tecgggcocc ctcgaggtcg acggtatcga taagcttgat atcgaattec
                                                                                                                       a_0
tgcagcouss gagaiousct agitotagag toaggasgas coaccaacct toctgathit
                                                                                                                      3.20
taltygolot gagticigas gocastitic tickicisti gagiatycgy gaktykcays 👚
                                                                                                                      2.80
cagatotygo tgiggasagg ageolgiggg cagosagthi agaggegiga cigasagtos
                                                                                                                      240
```

ő

```
captgostot tesecotecte satesectit ciggitacca egggessees coetetitte
ottitigatgi cottiacagi ggattacago caccigoiga ggigagiago coacgoicol
                                                                       360
                                                                       420
ggtagatggc tocacqtaca tgcacagtag caaaggcgta cotgotgtca gtgitaacgt
tastateett accocatogg agageetgag tgagggegat caatteagee ettitigtget
                                                                       480
                                                                       540
gaggigiting oligitiango octionnoca cascacatot giolocator tascagoido
                                                                       545
acagg
      <210> 11
      K2112 196
      <212> 0888
      <213> Nomo sapisa
      <400> 11
totoctaggo tgggcacagt ggctcataco tgtaatcotg acceptitcag aggctcaggt
                                                                        €0
                                                                       120
ggggggatog oftgagooca agaitteaag actagtotgg gtaacatagt gagaccotat 👚
cictacgase seateaases aigagocigg igiagiggca caceccagoi gaggegggag
                                                                       180
astogagoot aggaga
                                                                       196
      <210> 12
      <231> 388
      <212> DNA
      <213> Homo sapien
      <2220>
      <221> misc_feature /
      <222> (1)...(388)
      <223> n = A.T.C or G
      <4000 13
totoctaggo tigggggoto igactagasa tipsaggaso digggatica syicossoig
                                                                        60
                                                                       120
tgacaccaac ttacactgig gnotocasta aactgottot ttoctattoc ctototatta
aataasatsa ggaasacgat gicigigiat agccaagica gnialocisa aaggagatac
                                                                       3.80
                                                                       240
taaqtqacai taaatatosq satqtaasac ciqqqaacca qqttoocaqc ciqqqattas
actgacages agaagactga acastactae totgaaaage cogaagnoge astatotica
                                                                       300
cictacegit gaaggatggc tgggagaatg aatgototgt cooccagtoc caagctcact
                                                                       360
tactatacct cotttatage ctaggaga
                                                                       388
      <210> 13
      <211> 337
      <212> 088
      <213> Homo sapien
      <4000 13
tagtagtige ctataateat girtereart attitoacat titaltaace saliteight
                                                                       120
caccotysaa aatatyayyy aastatyayya agcaggyayy caatgirag ataatigato cat
acasgatatg attictacat cagaigetot ticctitect gittattice tittlatite
                                                                       180
ggftgtgggg togaatgtaa tagottigit toaagagaga gtiffggcag titotgtago
                                                                       240
thotgamach soloatgich ocaggosbot attigmacht taggaggtgt ogtgmasgas
                                                                       300
                                                                       337
tgagaggtet attititees tattiggges actacts
      <210> 14
     <211> 571
      <212> DNA
      <213> Econo sapies
     <220>
     <221> misc feature
     <222> (1)...(571)
```

```
<223> n = A,T,C or G
            <400> 24
taglagttyc catacagtyc chitcoatht atthascocc cacctyaacy gostasacty
agtgttcago iggigititt tactgiasac aminaggaga citigotcik cattianacc
                                                                                                                                     120
sassiosist trostatiti acquicqaqq qtittiaccq qiioctitit acactculta
                                                                                                                                     180
asscay: It teaglogitt ggascasget attititoit tootggoego tittemosti-
                                                                                                                                     240
stagomastt tytytotygy gyactyctyg toactytttc toacagityc asatcasgyc
                                                                                                                                     300
attiquasco asgassassa sattititig tittatitga asotggeoog gateaaoggt
                                                                                                                                    360
gttiggagog gotsotgiat stagittiss stogittistt gesectectt sagitteest
                                                                                                                                     420
tetgtyggyg ggggntiftg narageasgt offientcac anagtoscap ggactiffni
                                                                                                                                     480
ctittggmma otgagotaas sagggotgmt titogggtgg gggoegatgs aggotcacag
                                                                                                                                    340
gaggeettte tottagaggg aggasetnet a
                                                                                                                                    571
            <210> 15
            <211> 548
            <212> 088A
            <213> Some sapien
           <220>
           <221> misc feature
           <222> (1)...(548)
           \langle 223 \rangle n = \lambda, T, C or G
            <400> 15
tatatattia ataacttaas tatattitga teaccoacty gggtgataag acaatagats
tamangtait tocaassago ataasaccaa agtetoatso caasccaaat toatsotgot
                                                                                                                                    120
torrocapro grantgasso tipscritci ascigiptata otascosasi beiscrette
                                                                                                                                    383
assistitus tecorocies eracteriir tetrititi titateting egalogeofe
                                                                                                                                    240
tyyrtytyra goocaggygt ggagtacaat ggcacaacct cagetcactg naacctcege
                                                                                                                                    300
ctrccaggit catgagatte tectonities goetteeess tagetyggse tacaggigts
                                                                                                                                    360
catcaccatg octgoniaat citititings thingggieg agaiggaggs thiscatett
                                                                                                                                    420
gaccaggaig ginicgasci coigaccica agigaicese ecaccicagg cioccasagi
                                                                                                                                    488
gwtagyatta cagacatgag coactgugoc cagucotggt gcatgotcac lictotagge
                                                                                                                                    540
asctacts.
                                                                                                                                    543
           <210> 16
           <211> 638
           <212> DNA
           <213> Romo sapien
           £220>
           <221> misc_feature
           <222> (1)...(638)
           \langle 223 \rangle n \sim A, T, C or G
           <400> 16
ticogitaty cacaigosya stariorato ggiacticay clariacica ittigatyyo
                                                                                                                                      60
gCastCCGag cotatocica agatgagtat itagasagas ttgatttago gatagaccaa
                                                                                                                                    120
gctggtaagc actotgacts cacqasattg ttoagatgtg atggatttat gacagttgat
                                                                                                                                    180
ottiggaaga gattattaag igattaittt aaagggaato ostiaattoo agaatatott
                                                                                                                                    240
ggittaggic sagatgatat agasstagan cagasagaga cincasatga agaigistca
OCBBCLQ818 tigsagagoc batagtagaa aatgaattag ctgcaittat tagccttaca
                                                                                                                                    360
catagogatt thootgatga stottatatt cagocatega catagoatta octgateggs
                                                                                                                                    620
amouttacgs stantagess otgggtgogg godstigst gasticatoc nosgissatt
                                                                                                                                    480
tggststnsc saastataac tegattgest ttggatgstg gastactssa tetggcaass
                                                                                                                                    540
dispersit doithease agreeped disconse spaceastics totage principal principal principal disconservations and the contract of th
                                                                                                                                    800
citaticict actitacgge tettggagca tascggga
                                                                                                                                    838
```

```
<210> 17
      <21.1> 286
      C23.2> DNA
      <213> Homo sapien
      <400> 17
actgaiggat giogocoggag gogaggggoo ttalolgaig ologgolgoo igilogtgat
stacegogog stigggoist tistotossa cacegogseg geggigetes iggegostat
                                                                       120
tyccttagog geggogaagt caatgegogt cheacectat cottitgoca tygiggiggo
                                                                       180
galggegget topgoggegt traigacooc ogtotoctog coggitisaca coctograci
                                                                       240
tygocotygo sagtactost tragogatti tytosaseta gyogty
                                                                       288
      <210> 18
      <211> 262
      <212> DRA
      <213> Nome samian
      <220>
      <221> miso_feature
      <222> (1)...(262)
      <223> n * A, T, C or G
      <400> 18
toggtoateg cagococtic ticicaatit catcigicae taccotggig tagiatoica
                                                                       63
taggettaga tttttatage etectootig greigietit igattiteet geetgiaate
                                                                       120
catalcaese sissefaces gissacatit crassgigig gitsigetes igtesetect
                                                                       180
gignceages siegitions itempitett estessetto gastiigtic titnotaith
                                                                       240
teactettes estatement as
                                                                       262
      <210> 19
      <211> 261
      <212> DNA
      <213> Nomo sapien
      <400> 19
toggicstag casagocagt ggittgaget etetacigtg tagacteeta ancenagge:
                                                                       80
attlaigate ostgytygow ggallittal telasecety tacocatycs asittoctal
                                                                      120
aactictgaga tatatictic tacattkaan caataaanat aatotatiit tamaagoota
                                                                      180
attigogtag tiaggtaaga gigittaalg agaggytala aggialaaat caccagtcaa
                                                                      2%0
cytticicty cotatgaccy a
                                                                      283
      <22.0> 20
      <211> 284
      <212> 08%
      <213> Somo sapien
      €220>
      <221> misc_feature
      <222> (1)...(294)
      <223> n = A.T.C or G
     <400> 20
tacaacqaqy cyacytogyt xaaatoggac atgaagocac ogotgytott ttogtoogag
                                                                       85.08
ogataqqqqc oggccaqcca goqqaacqqt tgcccqqatq qcqaaqcqaq ccqqaqttot
                                                                      120
toggactysg tetgestott gitgigsses testogeogo ottogitoga ogsogiogog
                                                                      180
togasaicht eganotecht acquicquag tottegiggg cgacquicge ggicagtice
                                                                      249
goodcacega astratoytt gagooggatg etgneecega agnoctogit tgin
                                                                      286
```

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```
<210> 21
      <211> 208
      <212> DWA
      <213> Ecmo sapien
      <220>
      <221> misc_feature
      <222> (1)...(208)
      <223> a = 8,7,0 or 6
      <400> 21
ttggtsaagg gratggaogo agacgootga ogtitggotg saastotito atigatiegi
                                                                         60
stossigast aggaesaile commagagag maigtocigt igologecag tirtinigti
                                                                        120
gitateaigg amaaggeaam gageistisa gaetaiiggm atimiegise ggtesteige
                                                                        180
deactaging motificians atoticat
                                                                        208
      <210> 22
      <211> 287
      <212> DNA
      <213> Homo sapien
      <220%
      <221> misc_festure
      <222> (1)...(287)
      \langle 223 \rangle s = \lambda, T, C or G
      <400> 22
nounlingage tyagigating againthias tyntinias gutnational geogratians
                                                                         60
gragegyste accomposer gygretocog acaggerage aggarittggg geaggtacgg
                                                                        3.20
nytgogoato gotogastat atgotatgge aggogagoog tggaaggngg atcaggtoac
                                                                        180
ggogetggag officacgg iccatgnatt pagatggotg trotaggogg ctgttgocaa
                                                                        240
gogtgategt acquiggetg gascattgat ttctggtgcc asggtgg
                                                                        287 .
      <210> 23
      <211> 204
      <212> 0008
      <213> Homo sapien
      <2220>
      <221> misc_feature
      <222> (1)...(204) (
      <223> n = A,T,C or G
      <400> 23
ttyggtasag ggagcaagga gaaggcatgg agaggetean getggteetg geetsegaet
ggycossgot gtogorgggg siggiggaga salgasgagg gsachochag agghochocg
                                                                        120
negitacito neogiocago agosgopici ticogiogio ingosgosoc goppogasoas
                                                                        380
gatnotocto atggtomaca toco
                                                                        204
      <210> 24
      <211> 266
      <212> DNA
      <213> Homo sapien
      <220>
      <221> miso_feature
      <222> (1).T.(254)
```

```
<223> n = A.T.C or G
             <400> 24
tygattgyto aggagogygi agaştgycac cattgagygg atartcaasa atattatttt
groomssty atagitizety agitticit tyaccoatga gitalatigg agittalitiz
                                                                                                                                                    3.20
theactitod embogostog adalythage othertitot gitaetgatt notetritte
                                                                                                                                                    1.88
trassings thigagasst iggitaliat telescentt thiggtaith grigaging
                                                                                                                                                    240
acattatago tragtatgtg aces
                                                                                                                                                    264
             <210> 25
             <2112 376
             <212> DNA
             <213> Homo sapien
             <2200>
             <221> misc_feature
             <222> (1)...(376)
             \langle 223 \rangle n \sim A,T,C or G
             <400> 25
ttacascyay gygsasotou gtototecsa essitassee attagocayy tgiyytyyty
                                                                                                                                                     8.0
tyceccoyca atocceycta ctigygaggt tysgacaces gantosccta natytyggag
                                                                                                                                                    120
atemagatia catematemat gattytysem etgemeteem georgygtga emgacedmaga
                                                                                                                                                    180
contigontes anagansang astaggasgt toagasaton togningtgon gooragesat
                                                                                                                                                    340
cipostoist nessecorty especiance testgosgod tangitossy spotgotytt
                                                                                                                                                    300
totograppea gosqtinggg etteosicos gistosegge escaetegga ensgecatet
                                                                                                                                                    360
gtcotcogtn tgtmac
                                                                                                                                                    376
             <210> 26
            <211> 372
             <212> 0888
             <213> Somo sapien
             <220>
             <221> misc_festure
            <222> (1)...(372)
<223> n ~ A.T.C or G
             <400> 26
tracescas aggesector storctures easiteeses aftegorage totography
                                                                                                                                                     35.15
tycacctyle atoccaycta cttgggcggc tgagacecas geaccaccta aatgtgggag
                                                                                                                                                    120
ggicasggit gestgagics tystogogod actgosotod sycotgggig scagactgag
                                                                                                                                                    180
accotycoto sassagassas qaataggaag ttoagasaco otgqqtqtqq ngocoaqoaa
                                                                                                                                                    240
totopostita sacsatocci gowygoasty oigstycego cisaqticaa gagotycigi
                                                                                                                                                    300
cinospagas anadiasper entresses specially especial pages as a control of the cont
                                                                                                                                                    360
tootogttgg ta
                                                                                                                                                    372
            <210> 27
            <211> 477
            <23.2> 888
             <213> Homo sapies
            <400> 27
ttotgtocac atctacaagt ttiatttatt ttatgggttt tcagggtgac taagittitc
                                                                                                                                                     \delta a
cotacetige esagegasgt tgctsssagg tgcaceggas stcattitit teagtgasts
                                                                                                                                                    3.20
tystastaig gytocyigot tastesseut gegeostatt tyitototyt intintegen
                                                                                                                                                   3.80
toacototta aagtocaato coacaatggt gaaaaaaaaa tagaaagtat ttgttotaco
                                                                                                                                                   240
titasggaga cigcagggat ictoctigas axoggagtat ggaatcaato tisestmast
                                                                                                                                                   300
```

```
atqaasttqq ttqqtcttct qqqstaaqaa attcccaact caqtqtqctq aastqcact
                                                                      360
gactbilitt gggaaaaat agtcgaaaat gtcaaittgg tccakaaast acatgttact
                                                                      420
attemment atttamment mastictitic agagetetam gattggtgtg gacagam
                                                                      677
      <210> 28
      <231> 438
      <212> DNA
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(438)
      <223> n = A,T,C or G
      <400> 28
toinceacct citiganigic assascotin taggorator ciasasagorg actagrante
                                                                       60
attocapeas astocoteta gtttttggag tttcctttta etstctgggg etgentgage
                                                                      320
cacasatgon asatteagag natggotatt tinggggggot ganaggtnaa aaggggtgta
                                                                      1.80
astocyatas godtoctoga gotoctotas asaescicci gotoscicat catococto
                                                                      240
gacquetics atognottes acceptitat aggittetgg gragetocci quataccesc
                                                                      300
assasquist agatagssal agiassasqt talaactacs attqsassal tiqqatacas
                                                                      360
attaggicco aattgggici ctaalcacia ticcictage ticcictoc ggneiatigg
                                                                      420
tigatgtgag gitgaaga
                                                                      438
      <210> 29
      <211> 620
      <212> DMA
      <213> Komo şapien
      <220≫
      <221> misc feature
      <222> (1)...($20)
      <223> n * A.T.C or G
      <400> 29
aspagggiac cappocosag cottgacact tocataggg tytcaspect gtgggtgcac
                                                                       60
agaagtosas aattgagtit tgggatooto agootagatt toagaggata taaagaagaa
                                                                      120
outsacance againthoug acassageth actacaggga tosagethte acggsssace
                                                                      3.80
totactagge aegiecases gagesatgig ggitiggage occommong estocciti
                                                                      240
agaacactgo otaatgaaao tgigagaaga tggocactgi catocagaca coagaatgat
                                                                      300
agacecacea sassettata cestatiace tatassacet acadacacte asiquescec
                                                                      360
ccatgaasas assacigaga agasgacigt nocotacaat goosooggag cagaacigoo
                                                                      420
compacests gammacage tettatates sigipacets galitings estigaster
                                                                      480
mangaasion tittasmact bowacygttm aatgactgoo clattamatt omgaachtam
                                                                      540
atcompgeou gigaoctott igottigges attoscocti titiggaargg cintititit
                                                                      600
occatgoots theoctobta
                                                                      620
      <210> 30
      <211> 100
      <23.2> 088
      <213> Bomo sapien
      <460> 30
ttecasogag ggggtcastg toatasatgt cacaataasa caarctetto terteritte
                                                                       80
ttttttttt ttttttttt tttttttttttttt
                                                                      100
      <210> 31
      <2112 762
```

```
<232> 088
       <213> Homo sapien
       <2220>
       <221> misc_feature
       <222> (1)...(762)
       <223> n = A.T.C or G
       <400> 31
 tagtotatgo googgacaga goagsattaa attggaagtt goottoogga offictacco
 acactettee tgaasagaga aagaaaagag geaggaaaga ggttaggatt beattbeas
 gaginagota altaggagag nagagillag anagnaging gommonosity atanwasta
                                                                       180
 Eggaraaagt coolgitiag teadigorag areigeroot gotoeggitt igazatoici
                                                                       240
 etgrecatam ampatggaga geaggagtge catecacate aacaegtgte caagamagag
                                                                       300
 aaaccaaact saappasppp faaficifap secasaase istgepsees peppeefel
                                                                       360
 sauttagatt titototaca tatatataat atacagatet itaacacatt attocagagg
                                                                       420
 typotocayt cottygggot tyagagatgg tyasaacttt tyttocacat taacttotyo
                                                                       480
 totoasatto tgaaqtatat cagaatqqqa caqqoaatqt titqqttoaq aqtqqqqqa
                                                                       540
 agacoccaast qgttotgtgc occaagaaga gaagcoogaa agacatgaag gatgottaag
                                                                       600
 gagggitagg asagonasat togtantato tititoctout goodgigtto engasgioto
                                                                       660
 cnotysagga attottamam cootitytym gymamiyoco ootiaccaig memmiyyto
                                                                       320
 costinctit taggongate essacacess egetitiest co
                                                                       762
       <23.0> 32
       <233> 276
       <2222 DNA
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ttatttagaa agaacacata oggagagata agggcaaagg actaagacca gaggaacact
                                                                      180
aataltlagt gallacttoc attotiqqta assataqtsa cittlesqti socticasoc
                                                                      240
asgailthing goostgatha gitgicassa gitaginoto ingggittat sitactasti
                                                                      300
tigititaaq atoctigita qigottiaat asagtosigi tataicaaac gototsasac
                                                                      360
arigiagnat gitamatgic acmaistant tecomitty tytetatygo bytecomor
                                                                      420
                                                                      $23
      <220> 42
      <231> 827
      <212> DNA
      <213> Home sapien
      <220>
      <221> misc_feature
      <222> (1)...(527)
      <223> a ~ A.T.C or G
      <400> 42
totoctaggo teatgigigt girtotytes anginamang transastit tassanings
sammayotta tagaataaga ataigangan aganmatati titgiocati tyeecaatga
                                                                      1.20
gittatgitt taagetaagt gitattacan aagageessa aaggittisa saattaanac
                                                                      3.80
gtttgteseg ttacegteco ottetgttee titetaetig segenegees asottititt
                                                                      240
tetaestyte gtgregodia egostacegt ettleteseg hotggoegtg thoseteatg
                                                                      300
toctaggest tearattear tracigacic acceagages acticeagic etgiaagete
                                                                      3.80
cathoglogic asgigacota tacaggigas coattieitt tecagiatit itactoisacc
                                                                      $20
ticicistot ticustaigi ticqatatae asatacusci ggitaetain geomacagg
                                                                      480
taattoosgt ascacggoot gtatscytch ggtsncocts gngsaga
                                                                      537
      <210> 43
      <211> 331
      <312> DNA
      <213> Nome sapien
     <4600 43
tollossoot oglaggacas ofologiatat cotaggosot attituaggi tactacetty
                                                                       633
golgocollo tilanganna sannangang anaangano titlocacan giltotoire -
                                                                      120
ctotogtigg masstragag masiculgit tilemittig içilətircə gercacamat —
                                                                      280
```

```
trassacacti qiasacatia agriiciqti castrocortq qqaaqaqqat trattotqat
                                                                         240
attiacqqtt csasagaagi tqtastattq tqcttqqaac acaqagaacc agttattaac
                                                                         390
ticciacisc istiatatas isasississ c
                                                                         331
      <210> 44
      <211> 592
      <23.2> 088
      <213> Romo supien
      <220×
      <221> misc feature
      <222> (1)...(592)
      \langle 223 \rangle n = \lambda_* T_* C or G
      <400> 44
ggottagtag ttgocaggos asstarogit gattotocto aggasposeco occasesco
cigititgoti otagacciai acciagacia aagiconago agacccciac aggigaggit
                                                                         1.20
cadagityacc citigaggaga igigotacac tagaaaagaa cigotigagi titotaatiti
                                                                         1.80
alataagoag asatotggag aagagtosts ggaatggata tinagggigt gagataatgg
                                                                         240
cggsaggeat stagagityg atcaggotgg acttatigst tigsaccosc taagtagage
                                                                         380
thoughtlit gaugitigong chonogragi tassassign titlesignit chastagti;
                                                                         360
attigotigg tiagotgess tatggatase agetggoods otgigagosa gotggesaig
                                                                         $20
cotystotot otosgittas tytagaggas gygatocasa aytttagyga ganttegate
                                                                         480
ctygraktyg atiggtcaot ttyrgacota cocwtoccag otyggagggt ccagaagata
                                                                         540
carpottgap casegoting egassiggst thgigstgge ggesselect as
                                                                         992
      <210> 45
      <211> 567
      <212> DNA
      <213> %omo sapien
      <220>
      <221> misc_feature
      <222> (1)...(867)
      <223> n = A,T,C of S
      <400> 45
syctiaging tigocatigo angigotigo tonacquegog tigancaigy oppnitytot
                                                                         80
agaticaecy gatitgagit tiaccayosa agogaacosa gogoggocoa gagasitatq
ggilggitgg offigassay atggsaatoo tqtaggcora grosgssassg octicttgos
                                                                        180
gascasting tiologgoog ascocicate asgaignees tiggsangge tagogligian
                                                                        240
ttsggssssc ctsetagogt stottoigat satsitists otissacast sacsacast
                                                                         300
algramagem mylcogmast mgacytemag ettegtymge mamttatigt mymetectae
                                                                        360
timiscipig aggasigaia goosagggig gggactitas gactaaggig griigiacii
                                                                        420
gognogatga toccaggoas easgametga togctastit istacyggoa actactaago
                                                                        490
equationary escaptorer receptions attenuation another escaptions
                                                                        540
catascriga gitwicteta nigiono
                                                                        567
      <210> 46
      <211> 908
      <212> 088
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(908)
      \langle 223 \rangle n \sim A,T,C or S
```

17

```
EADON 66
gagogasasa cogagggoag ngnntangng ogangaagog gagaggggooa aaaagoaaco
                                                                       60
gasgotagoo qoqqosaga gasqotagaaq qaadagaaq qacaqotagaaq qacaqotagaaq
                                                                      120
goggoagggg cyceagcaat taatgtgagt aggcoattos tragcaccog gycttaacat
                                                                      280
ttsmgottog gyttggtmig iggigggami tglgmgogga kamozmitto moscaggasm
                                                                      240
cagotatgac catgattacq coaagctatt taggtgacat tatagaataa cicaagttat
                                                                      300
goalcaagot tggtacogag ttoggatoca clagtaacog cocceatgt greeafice
                                                                      360
gothagtagh toccoaccat opactoctac ctagoctaga atacebeagy techcectag
                                                                       420
octoactoac attasatigt atottitota cattagatgt corcagogoc ttattotac
                                                                      480
Iggecwatog ataasttaat ooigatagga igatagoago agattaatta cicagagtat
                                                                      540
gttaatgigt calcoctoct atataecgta ittgcaittt aatgcagcaa tictgcagat
aatoootgaa ggossaggas igsalotiga gggtgagaaa goosgaatoa gtgtocagot
                                                                       660
goagttyteg gagaaggiga tattatyint giotoagaag tgacaccata tgggcaacta
                                                                      720
ctaagoonga attocagoac actggoggge gitactaatg gatcogagot oggiaccaag
                                                                      790
Ctigatycat agcitgagta iciatagtgi cactaaatag cetgepetia teategteat
                                                                      840
agotgittoe igiqigaaat igitaloogo loocaalico coocaccata egacoogsa
                                                                      900
                                                                      908
catasagt
      <210> 47
      <21.1> 480
      <23.2> 0000
      <213> Homo sapien
      <230>
      <221> misc_feature
      <222> (1)...(480)
      <223> n ~ B,T,C or G
      <400> 47
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ggittitaag gitgittitoi gidaaataad totaacitta agccaaacag taiaiggaag
                                                                      120
Caragataka atattarana gataasagag gagtigatri asagtaraga tagtiggggg
                                                                      180
cittamitte togameetag greicoecat citetreigt getgangame tietrggmag
                                                                      240
oggygaitot asagitotti ggasgacagi tigasaacca costgitgit cicagiscot -
                                                                      300
ttatttttaa saagtaggtg aacattttga gagagassag ggottggttg agatgangto -
                                                                      360
occocccc cttittitt tittagotga astagaiacc chatginaa rgaargaht
                                                                      420
attatitaco atquesytar acacatquis titiqatqqqo ayotqqatao cotqqttaqq
                                                                      480
      <210> 48
      <211> 591
      <212> 088
      <213> Homo sapien
      <400> 48
ascangetan equatiograph throughting chapterson attached to extine the
                                                                       80
togoceancet teograectic mesotosach gtictigged gtickegogg gegiecoggo
                                                                      120
paggatgatg gogtgaatto tggoottiet ttgcogtggg ateggtages gooatsateg
                                                                      180
gtatgtitat caagatette titaetaace egacetetee gatttacetg coogageegt
                                                                      340
ggtttascga ggggaggggg atccaptoac gcgagtactg gtoccagato ttogccatog
                                                                      366
tostgacast gootaloaac tioglogica ataagitgig gaccitocga acggigaago
                                                                      360
actoogassa ogtooggtgg otgotgtgog gtgactooca asatottgat aacaacaagg
                                                                      $20
tasocyasto gogotasyga accocyycał dłogygtacł otgoatatyc głaceccita
                                                                      680
agcogastto cagcacacto geoggecytta ctaattogat cegaacteed taaccacee
                                                                      540
tgatgogtaa ottgagttat totatagtgt cootaasaata acetggegtt a
                                                                      39%
      <210> 49
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<211> 454

<212> DNA

18

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<212> DMA

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<213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(179)
      <223> n = A,T,C or G
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ttoggytgat godtodicag gotscagiga agaciggatt acagaaaggt godagogaga
                                                                        80
titicagatic Cigiaascot Ciasagasas ggagtogogo cicascigst giagasatgs
                                                                        220
ctagticage atachgages acototigaet occattotag aggactgagt garctgcan
                                                                        273
      <230> 54
      <211> 112
      <212> 000A
      <213> Homo sapien
      <220>
      <221> misc_feature
      <222> (1)...(112)
      \langle 223 \rangle n \approx A,T,C or G
      <400> 54
ttogggtgat gootootoag gotacateat natagaagea aagtagaana atenngtitig 👚
                                                                       ୍ଦେ
tgcattttoc cacapacase attcasetge ntggeagese ttgygenegt et
                                                                       112
      <210> 55
      <211> 225
      <212> DNA
      <213> Homo sepien
      <400> 55
tgagottoog Officigacaa ofcaafaget safcaasagga caachtisac agggaftosc
                                                                        90
anaggagtat atocamatgo castasacet atasasagga attoagotto atoatoatoa
                                                                       2.20
gasgwatqos astiamasco alsaigagaa accectatgi coceciagae tagaisaani
                                                                       280
cttassagec tggtassacc asgigtiggt asggceageg gages
                                                                       225
      <210> 56
      <2335 175
      <212> DMA
      <213> Homo sapien
      <400> 56
gotoctotty coifacease acattotosa associatta gagtectase cattotocty - 60
ttagtattyg gattitacoc otgtootata aagatgitat giaccaasaa igsagiygsg
                                                                       120
ggoostacco tyspygaggg gagggatoto tagtgttgto agaagoggaa gotoa -
                                                                       2.75
      K210> 87
      K231> 223
      <212> 088
      <213> Somo sapien
agocattiac cacccaiggs igaatggatt tigtaatict agotgitgis titigigaat
                                                                        80
tigitaethi igitgiilli olgigasaca catacattgy atatgggagg taxaggagtg
                                                                       120
toccagtige teetggicae tecettists geosttsetg teitgittet tgtssetesg
                                                                       380
gttaggtitt ggictotett getecactge seasassas asa
                                                                       223
```

<210> 58	
<211> 211	
<212> 188A <213> 80mo sapisn	
were many advisors	
<490> 58	
gttogaeggt gesogtgtag gtagoggato toeceantgg g	ggaactgtca aagacgaatt 60
sactgacity gatcasioss stylysotys gyasacacci y	paggtgaag eacatcatoo 120
sytyycagas astgaeaata aggagaatga agttgaagag g	
agagetgaci tiggstgggt ggtesatggt t	ži:
<210> 59	
<211> 208	
<212> DMA	
<213> Bomo sapies	
<\$00> 59	
gotoctotig octiacesso thigoscops tostossops t	etagocaga titacascoc 60
aggotgoaca toaggegact gootogoaat acticatgot g	ttgcigcig actgatagts 120
Ctytyscyya tytyymayor acaoytyagy ctytyytycy t	gostogaac otgoocatgt 180
cagtgatost tatgggtggt sastggct	208
<210> 60	
<211> 371	
<212> CNA	
<213> Homo sepien	
< 600 > 60	
agocattiac caccostact aaattotagt toaaactoca a	Cticttcca tagaacatct 60
BECCECigat acceptings extagnitet toottottim e toaaigonat scattioins exityaxiaa agtignaan g	cctottaga gtatttatgg
2 2 may be a file man a fine a file	togodakkak o 717
<210> 61	
<211> 134	
<212> DSA	
<313> Komo sapien	
<220>	
<221> miso_feature	
<222> (3)(334)	
<223> n = A.T.C or G	
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pogytakyc otoctoagyc titggtytyt coactonact c	actgaceta tietacages 60
artygigaan atytooidan gaaaanonoo acaoyongot c	agggtgggg tgggsandst 120
Canaatcate ngge	3.34
<210> 62	
<211> 345	
<21.2> DNA	
<213> Bomo sapien	
23 0 0 0 x 5 0 x	
4005 62	ik romana ayang sa sadada aya kasasan sa
egagggtara tatgosacag tetetesegg aagsagtgos c groattiaat caalsagige tagagtoseg gotoascoca g	tgagaggaa ottoatosag — 60 gigtgaogg attocaggic — 120
consgetest lastygtacs statt	yryrganyy ancompyon - 129 145
	33 3.50
<23.0% KS	

21

<211> 297 <212> DWA					
<213> Komo sapi	¢a.				
<400> 63 tycactysga ggaathcaaa	gggtttalge	cssagascas	accagtecte	tgcaqcotaa	60
cicathigtt titgggcigo Coacagicag cyccatyyig	gaagocatgt gtooggtaaa	agagggcgat gcatttggtc	caggoagtag aggoaggoot	atggtsocte cgtttcaggt	120 180
äyacyyycac acatcayott ayoxtaatoa tacactytyy	asiccoagat	ctitigtage captitagit	totggagott ootsacceas	tgtttttese osecare	240 297
<210> 64 <211> 360 <312> 388 <213> 8000 88pi		* *			
<450> 64					
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astgittiac calliticigi	attacctatt	tttctatatt	titotiosto	tottosttet	180
ocattitlag gootttacat	gttaggasts	tatitotti	astgatactt	cacettingt	240
stoititigity agestoisci	catagtgtga	taagcactgg	gttggtaagg	caagaggago	300
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<400> 65					
gotoctotty octtaccamo wacagootyt atcommono	teacceagta	racetesass	tttstorgot	tracctacga	60 120
cicaigggic tetotgetoc Logalagaag ticctctoag	agttotgaac	ctttotettt	toctagaaca	tgostttarg	169 203
<210> 66					
<211> 344 <212> DMA					
<213> Nomo sapi	* n				
<800> 66					
tacggggacc octgoattga	gasagogaga	ctcactctgs	accissasto	abattaccet	\$0
tgcagtgetg gtagcaggag	ttotgtgott	tgtgggctaa	ggoteotoggs	tgacocctga	120
Dalggagaag gragagitgi Danacacaaa aigorgiiti	gtgccccttc	teatggeete	gicaaggcat	catggactgc	180
gatgtggoto gtascostgg	Statootnan	atacsasact	aggagagaau atasttatat	acaarceecs aaaaattaat	240 300
locáccoaco teatgtggáá	actagoctos	atgcaggggt	CCCS	amen and an annual	344
<210> 67 <211> 157 <212> CMA <213> Homo sapi:	963				
<400> 67					
ycactgagag gaacttogta kaaccagact gatagocatt ycagaggytt gtgtatagoc	ggatggátaa	tatggtggtt	deddedddec deddedddddd	aacaacaggg actacttata	60 120 157
	•				

<210> 68

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<211> 137
      <213> DWA
      <213> Homo sapien
      <400> 68
gractgagag gaschtotag saagigaaag bobagacaba saabaaaga gagattgag.
                                                                       60
actosquaga gacagoocay cacqqtqqot cacqootqta atoocagaac titgqqaqoo
                                                                       120
tgaggaggca tcaccog
                                                                      137
      <210> 69
      <211> 137
      <212> DMA
      <213> Nomo sapien
oggytqatgo otcotoaggo tqtattitga agactatoga etggactict tatosactga
                                                                       60
agastoogit saasatacoa giigistist iiciscoigi caaastoosi ticsaatçõi:
                                                                      3.20
gasgtteete teagtge
                                                                      137
      <210> 70
      <211> 220
      <212> DNA
      <213> Nomo sapiso
      <320>
      <221> miso_feature
      <222> (1)...(220)
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agratytiga gooragacar graatoigas tgagtgtgca ootoaagtaa atgtotarar
                                                                       80
getgeetegi etgaestoge sesecatene gtggaggges essetetget engectaewa
                                                                      120
ogaggyeant cicatwgaca gyttocacco accasactgo asgaggetos nnasgtactr
                                                                      180
ocegggtmya sggacmaegg tgggaytyca ycacwcatot
                                                                      220
      <210> 71
      <211> 353
      <212> 088
     <213> Homo sapien
      <220≥
      <221> misc_feature
      <222> (1)...(353)
      <223> n = A,T,C or 0
      <400> 71
ogttagggto totatocact gotasaccat acaccigggt anacagggac catitaacat
                                                                       60
toccanotaa atatgocaag tgacttcaca tgtttatott aaagstgtoo aaasgocaac
                                                                      120
tgattttctc occtaascet gigatggigg gatgattaan octgagiggi ctacageasg
                                                                      180
ttaagtgraa ggtgotaaat gaangtgaco tgagatacag catotacaag geagtacoto
                                                                      240
toaschoseg gosactitge tictosnagg gostiteges gigiotgesg tastitotgi
                                                                      300
attacaacto acoggoogge oggicaatat ciantogana gnagacocta aco
                                                                      353
      <210> 72
      <211> 343
      <212> 088
      <213> Homo sapies
```

23

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ogtisgogio totalocact occaciacto alcasaciot allialitias lialitikal calacitias gifotogogi acacogicago calgogoago tilgitigosi aggistacac tigocalgoi gottigolio accomicagi comicalcia callaggist tictociasi gotalocolo occiagococ tiacaeccoc ascaggolici agigigigas gifocicias gigo	80 120 180 240 244
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				gggtgtccct		3000
				ttotgttaga		3060
				cttgagtgag		3120
#ggatgetgg	äääaoräeät	catagittet	ggoagactgg	tototototo	totatitta	3180
satctetaat	ettteettgt	tomagettict	tygagaatot	ctgggaaaga	assaugasaa	3240

38

acigitataa acicigigig aaiggigaat qaaiggggga ggacaaggge tigeçettigi 3300 topoptoca tocoppost sotipappes topassagot acquaptification to tocopopt 3360 teogiqqoqa cotoatsaqq oitasqqosq calcoqqost sqotoqsico qaqooqqoqq 3420 titaladogg cylgtosaty diazgagyzg coezagtooc otzaggygga goggoczągo 3460 gggratutga cigatoccat cacgggacco octoccottg titigictasa saassassas 3540 quagaaacty toataacty: thacatyccc taggytcaac tyittytttt atytttatty 3600 trotyttogg tyrotattyt ottyttääät gyttytoaay yttttyoaty toaggacyto 3660 satatigosa aagasgtotg ggbaagaast totgaagggt cottagtage gatititiete 3720 cacaggaggt taaatttoto atcastostt taggotggoo accacagtoo tgtotttot 3780 gocagaagca agtoaggtgt tgttacggga atgagtgtaa saasacatto gootgattgg 3840 gstitictage acceptage thatatites attatoes conceptage getting 3900 accidenta aactaseetg giggigggtt cassacagee secripeags titeettiget 3960 cacciciting gicationgy ascining the gracectism atagement gigthogogen 4926 acctacocto gracigotti acticgitta gattottact cigitoctot giggoracto 4080 torcatotts assacquioc sagiggioch thicotoric cotgorocci accoracaca 4140 iclogitic cagigogada gosagitosg cytotocagg actiggotol goioleacro \$200 otigaaccol taasagaasa agotgggttt gagotattig oottigagto atggagacac 4250 agagagatatt tagggtacag atotagaaga agagagagaa cacctagaga cacctagaga 4320 aggagatete gggetggeet etagteetee teecteaste ttaaagetae agtgatgtgg 4390 constigutat tingetetty tegitilitet getelliete gleeniglige licigilett 4440 togstactor agreecess gragigagth toteletery togetogothic maisterate 4860 ttossatott attasatigo ottoasaaas asaasaasaa osgaasosot tootoocaoo 4560 otigiaaggg tiggagooot ciccagtata tgotgoagaa tittiototo ggittotoag 4620 aggattatgy agtocgoott assassaggos agototggac actotgossa gtagsatggo 4680 casequity agrigacing coccities of gereacties cotcaceatt gitesageig 4740 tgtggggggt tgttactgaa actocoggco tocotgatca gtttccctac attgatcaat 4800 ggotgagttt ggtcaggago accorttoca tggotcoact catgoaccat toatsatitt. 4869 accideasgy toriccious cragaccyty tittogecto gaedeicage egyttosgot 4920 opossigias igovicisto ignagaagag gagagiotoo eicacocagi occacogosi 4980 tassaccage ctactorott agggtoator catetotoot eggetatete coetetagge 5040 tostoscoca tigocicity gitycsaccy tygiggyagy asgragocco totactacca \$100 ctgagagaga cacaagtcoo totgagtgat gagtgeteea ceceetteet ggtttatgte 5180 cottottict acticipant totalsatig gaseaccost asicotocot iciotysasa 5220 godocaggoù tigadetese igsiggagio igiacietegg acadaitege coaccieges 5290 tgactytoas cayotootti tyacoottit oxoototyaa yayayyyaaa ytatoosaay 5340 agasgicaaa aagtacaaco toacatoaac caataggoog gaggaggaag otagaggaat 5490 egigatiege geoccestig ggeoctasti gggacocess titotcaegi ggagggagea 5480 ctttigacga ittocaccgg tatofcoicg tgggtattca gggagciget cagaaaceta 5520 tamactigic tampyogact gampicgics aggggonige igagicacca ggagigitit 5580 tagagcacct coaggaggot tatoggattt acaccocttt tgacctggca geocrogasa 8886 atagorated tottaatting goattiging ofcaggoago cocagatagt assaggasso \$700 tocaanaact agagggattt tgotggaatg aataccagto agotittagn galagootaa 8780 saggitting acagicasga ggitqaaasa caamaacasg cagcicaggo agcigaaasa 3820 agocacigat asagostoct gyagtatosg agtitactot tagatosgco toatitigact 5880 troproces catggigtit assicraget spartacity objectosas obcesetatt 5888 cotqticatq ecigicagga acigitggaa aciactgasa ciggoogano igatoticaa 6000 asigigococ taggasaggi qgatqocaco qiqticacaq acaqiaqcaq ciiccicqaq \$060 pacinggaty iigigisgas apappiscos iipioparpi pynopases naiklabepaa 63.20 gotttaccag cassiscoto agracasasg gotgasttga togocotoso toaggototo 6180 cyatgogyia agyatattaa cyttaacact gacagcaggt acgcotttgo tactgtgoat 6240 gtacytysay coatotacca gyaşogtygy ctactcacct cagcagytyy ctytaatcca 6390 ciginaegga caicessagg assacacygo igilgcoogi gglascoaga sagoigalto \$360 agragoticaa gatgoagtigt garbttoagt bacquotota aabttgotgo boassgioto 6420 cittocacag coagalotgo organalco ogoatactos acagaagaag saaactggoo 8880 toagaastoa gagotaataa aaatoaggaa ggttggtgga thottootga ototagaato \$540 treatabooc geartring gassactite straqtoaco tacaqtotec caccosttta 5600 ggaggagdas agdtacotos gotoctocgg agoogtitts agatocceca tottcaaago 5660 Chancegate asgregatet coggiganca accigagent agginaatge canasasgg; 6720

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asiggascopp Cottogocit giotalagii lagicagica gleaggogii asacellesa	7020
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attestycyt gyatteatea etocegoste sassaggees acggageesa actagasses	7560
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etatocycae thoccaggas thogtcosat testacace caseagooc gogichatca	8040
coltytasis stottassyc pootgesect gysactatia negitectyt ascentitat	
colition thirty octa cittalitic glassatig titasciaga cocceets	8300
Anthorna apparent a same and a second to the second as a second	8360
cottoisas cossagtais seagossato tapocoetto ticaggeoga gagastitog	8220
agogttagoo qiototiggo caccagotaa ataaacqqat toticaigig totoaaagtg	8280
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<213> Econo sapism	
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toscipcoto otaligical gaggiacaci gagcagasti aascagggia gietiaaces	120
cactattitt agotacottg toaagctaat ggttaaagaa cactifiggt fracactigt	180
tgggtcatag aagttgctit cogcostcac gcastasgtt tgtgtgtaat cagaaggagt	246
tacottaigs titcagigic attotttagt teactiggga gotstgiaat traggoinig	300
ogtatiatti cacisotytt otocacitat gaagigatig igigilogog igigiyigog	340

tgogoatgig	cttccggcag	ttaacataag	casataccca	acatomosot	getogaett	419
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1000	. where eater	Err				
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aggotottag	actastatat	gcacatggst	ptombossot	accochatat	goverymout catthebeen	3.89 3.80
gataaatccc	ccatgottta	tattototto	caaecatact	atcotcatca	coacatactt	240
cetttgttaa	tgetttgtte	tagactttcc	cttttetgtt	ttottattca	ascotatato	300
		tosaatgeco			gtaagggagg	360
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		ccasgasgat				60
		gggcatcatc				120
		oggacaactc aggttttgaa			cadocddada	180
eeddddaaaded	eduling comments	wad crereduce	g coconcous	grgu		224
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<2112						
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<4002		********				
		caeassaans aacatttgct				60 111
<310>						
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<21.2>		×				
***	· Homo sapie	313				
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lagoalgulg -	agcccagaca	cttgtagaga	gaggaggaca	qttagaagaa	gasgsasagt	60
សស្សស្គម ស្គ្របាន	intransassas	catoagasag	areamorane.	ddardadacr.	titasagatg .	
eastitecto	atatiticana	tastgcccaa	achtestitt	ntontasame	assetstot	180 240
		tatgaasagt				300
gitigacati	gcttcatagt	gostetgttt	tegeocataa	togasagtas	agatagotgt	360
		ttggtatgtt				420
		tgttgctact				480
		tttootgtea			catgoatitt	540 *****
o c co cgaasb	Addannanti	atgotatata	*Addanscapg	28028		585
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N. 16. 16. 18. 18.	armen authory	286				

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sagogiqtii gicigigaag qacocigacg teaccigeca ggciagggag gggtcaaigi
                                                                       228
ggagigasig ticacogact itogcaggag tgtgcagang ccaggigcas citggtitgc
                                                                       190
Elgiqiicai caccocicaa gaisigoaca cigotticoa aataaaqoat caactutcai
                                                                       240
compacto mochacocci presepacte comescett ittomasete patement
                                                                       300
aquacytica inttotoggy caguacosog toutcosoct totgetygta caeggigaty
                                                                       360
stytoayeas agroupticty cangacougo typocogtyt gotytycoat otcactygoo
                                                                       420
toczaczącyt aczosyctot zgypogogoa tantytyczo zgaznazatę atysteczyt
                                                                       488
occadagoco acgiocasga ngactitato ogicagggat telitation gcaggatgac
                                                                       840
ctgtggtatt sattgttogt gtotgggeto aacatgeta
                                                                       579
      <210> 148
      <211> 249
      <212> 088
      <213> Some sapien
      <400> 148
tgacacettg tocagostot gcaagocagg sagagagtoc tcaccaagat coccaecocg
                                                                       60
ttogoscoso dalottogas theesateke caquactore aqaastaaqt attigtosot 🕟
                                                                      120
ceepepeest peptoppent epebpetato petitatepe offitypitit folesabese
                                                                       180
occataayay ttacatacio aftaatctoc gtototatoc coaggiotoa gatgotggac
                                                                       240
aaggtgtca
                                                                      249
      <210> 149
      <2112 255
      <212> 08A
      <213> Homo sapion
      <480> 149
tgacacoltg tocagoatet gelatititat gactititaa taatagooat tetgaetggt
                                                                       80
gigagategt aasteatigt gygtiiggis igoattiste taatgabeag igataitaag
                                                                      120
cittities statgettyt tyaccacaty tatatostot trigagasyt gtotyttosi
                                                                      1.83
accordinged cactifities littitlate ligheautit gittestite citacagety
                                                                      240
ctggacaagg tgtca
                                                                      255
      <21.0> 250
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      <212> DMA
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gygaagttom agtocagong aggytgygtg gytagacayt gycactcaga aatytcagot
                                                                      120
ggaccorigi coccycatag geaggarage aaggeigigg etcloraggg coageigaag
                                                                      380
sackggacas tytotocgot godacasago gtoagagact occatotitig aageaeggoe
                                                                      240
tholiggant tootigosoft contintinty thangaparent gightatagae aaggehiche
                                                                      390
cacagigity cagogiaa
                                                                      31.8
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      <212> DNA
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                                                                         53
ttattenace aagnnigade naigeentit aigactiaca igennacine pjaateigin
                                                                        1.23
termigratia assgenante esetscatge atesaesetg tatgtigtase aleataset.
                                                                        180
groupheals gaggrocats actsonassa tacanttest actactices nigrostera
                                                                        240
cytytygout thoctactor bottotatto campiagoat chotyganig oftoccaci
                                                                        380
ctocscatty ttgcagcost sat
                                                                        323
      <210> 152
      <211> 311
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tosagatton ataggotgan cagtonsagg agagttgasa tostgasgga gagtotator
9949498901 giagittiga gyyttycaas gasttaggat gyagiiggig ggigiggita
                                                                        120
gtotoloagg tigatitigt toatasaitt caigeoctgs aigeetiget tgeeteacee -
                                                                        180
tygiocompo ettagtgamo moctammegt etetgicite tigeteteem maeticies:
                                                                        240
gaggattico toagaligio lacalloaga logaagooag liggoasaca agalgoagio
                                                                        300
cagagggtca g
                                                                        311
      <210> 153
      <2115 332
      <212> 088
      <213> Bomo sapism
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cassettors taggotyaco appaggotat tosagaicto tygoagtiga ggaagtotot
                                                                         60
tteagesest agtitaasca stitgitses attiticigt citactics; tictgisgos
                                                                        1.20
gttgatatot ggctgtoctt titateatge agagtgggae cittcoctac catgitigat
                                                                        1.80
asstyttyto caggolocat tycosalaat gtytigtoca aastyootyt ttayttitta
                                                                        280
asgacygasc tecsceettt gettggtett asgtstgtat ggsatgitat gataggscat
                                                                        300
agtagiageg giggicages talogaatet to
                                                                        332
      <2305 154
      <21.12 345
      <212> DNA
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      <220>
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                                                                         60
                                                                        120
tomagetems tygagaaggt tirratgare etcagatics crosssoctt gyattyggty
acattigcate toctoagaga gggaggagat gtangtotog gottocacag ggacotiggta
                                                                        180
ttttaggato agggtacogo tggootgago ottggatoat toanagootg ggggtggaat
                                                                        240
gyotygoago otytygooco aligasatac gotofygyyo actocoloty troctantty
                                                                        300
aactigggia aggaacagga aigiggican octaiggaat citga
                                                                        383
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43

<210> 155 <211> 298 KŽIŽD DNA <213> Bomo sapien <220> <221> misc_feature <222> (1)...(298) <223> n = 8,7,0 or 6 <400> 188 gacgottggo cacilgadad altawadagt titgoataat cactanosig teikiotegi 60 tigotytoig olytyatyoo olyczolyat tolorgycyt taalyatyyo aayealaato 120 assogotgtt styttsatts casyttatas chygsattys thasaycatt stotttoses actabactgi tottostema acagoccata tisitatosa attaagagac astgiatico 240 astatoottt anggedasta taittnaigt opertaatta agagetacig toogt 293 <210> 188 <211> 406 <212> 000 <213> Somo sapien <220> <221> misc_feature <222> (1)...(406) <223> $n \sim A, T, C$ or G<400> 156 gargettgge caetigaese tgesytyggs saseragest gagocyctge cocceasgas OCTOGRAGOO DAGGGGGGGG ACCAGCCATC CORGCCTGCA GGTARAGTGC GCCCCCCCCCCC 120 aggigggett gggstgagig ggtgggggaa gigtgigt aaaggiggig inaatginia 180 tyrqtylgag calgagigat ggclagigtg actgcalgle agggagtgtg sacaagcgig 240 egggggtgig tgtgcssgtg egtatgeata tgagaatatg tgtetgtgga tgagtgeatt 300 tgasagtolg igtgiggg igtggicalg angglaenti solgacigcg caggatgigt 360 gagistycat ggaacectom nigigigity campiggeen anogic 406 <230> 157 <211> 208 <2222> 1808 <213> Bomo sapien <220> <221> misc_feature <222> (1)...(208) <223> n \sim A,T,C or G <400> 137 tgacgottgg coactigads dactamaggg tghtactgat captitotic toloctedge ggostgigag igcalciati cactiggosc teatitgitt ggeagigaet glaaneeans 320 totgalgost aceccagott chassings tesatgioto testactorg typicacast 130 anggtanggg tgaggagasg gggagaga 298 <210> 158 <2112> 547 <212> DMA <213> Homo sapien <220>

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                                                                      3.23
aggyittesi calgitgaco tggciggtot caaseteetg sectesages stgtgecese
                                                                      180
ctcagcotco casagigoto ygatiacago cataagocae catgoccagt ocatottisa
                                                                       240
totitoriac carattotta coacactivo tittatgiri agatacalaa atgottacca
                                                                      300
ttatgataca attgcccaca gtattaagac agtascatgo tgcacaggtt igtagcctag
                                                                      360
gaacagtagg caataccaca tagcitaggt gtgtggtaga ctataccatc taggttigtg
                                                                      420
tampttacac titalgety: ttacacauty acamasocat crastgatyc atticicage
                                                                      486
stgiatosti gicagiasgo isigaigisc agggascact goccasggac acagaisitg
                                                                      540
tecctat
                                                                      347
      <210> 159.
      <211> 203
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gotoctotig cottaccase tescocagia igicagesat itiatergot tiscotacga
                                                                       80
ancaporty: storeascar thearmost carrigases gircappose cestogorth
                                                                      120
ctcatgggte tototgcton agthotgsan efficient tectagasca tgcatttang
                                                                      180
togategeeg thochetese toe
                                                                      203
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      <211> 402
      <212> 098
      <213> Romo sapien
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tamacaataa taataatatt tagdattiat agagdactit atatditosa agtactigos
                                                                      320
ascattayot satisasian cotobolgat tataatolog abscassigo actimasoto
                                                                      3.80
aggacagggt catgagaraa gtatgcattt gasagttggt gctagctatg ctttaasaac
                                                                      240
ciataceaty atgggraagt tagagticeg attoigting actgittity typetteres
                                                                      300
ticagocigs toggragamit agatemente togenologat quotytocti qaimacrist
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cactgaaato tgagtgtiga toateacaet gotegactta ea
                                                                      402
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asastaajaa soapaateos ppooppeos asaaisassa asoasaskeps peassagios
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ttagoygaca aqqacaigaa aacaqotatt qtaagagogg atatagtggt gtgtgtotgg -
                                                                      120
getessesty eta
                                                                      3.93
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<210> 163 <211> 294 <212> 06A <213> Econo sapien				
<400> 163				
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iwgactgact catqtoccet acaeccaact totgatootg acttagggga ataitttott agittootgg itcagggtaa gaaaggagot	titiscticcc	atctigatto	catgaoggtg	60 120 180

```
acequacytec equateegaq ascriggacr tagocagosg ascmosaktg esamosquac
                                                                       248
mottamotag gatracaamo menraratar kigoyememo wiataataga aaccaaactr
                                                                       300
gtatotaatt aastattiat ooscygiosg ggosttagig gittigsiss staccottto
                                                                       360
gotaggatto otgaggitag aategaaraa baattgoamo gagggiaggg gacatgagto
                                                                       420
aktotaa
                                                                       $27
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agaggagaca octyclaggi giaaggagaa galggiingg totacggagg olocagggtg
                                                                       120
ggagtagtic cotectaagg gagggtagas tottcaacct gttcctgctc cggcctccac
                                                                       198
tatagragat gogagoagga gtaggagaga gogaggtaag agtoaqaaqo ttatqttott
                                                                       240
tatgoggggs sacgtortat ogggggosgo oragitatta goggacants tagwyastow
                                                                       300
agntagoato caasqogngg gagtinicoo ataiggiigg accigcagge ggscipcatta
                                                                       360
gigatiagos igigagococ agacacquat agcaecaseg acciesacto agatocigig
                                                                       420
otgatiactt ascatgastt attgtattta ittaacsach tigagitatg aggostatta
                                                                       480
ttaggiccat attacctqqa
                                                                       500
      <220> 168
      <211> 358
      <212> DMA
      <213> Some secies
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tteategute gytgaetess goeigtaste cosqueetit gggsggeegs gyggagesgs
                                                                        69
tracetysky ttygysytti gsysorsyce tygensacst gytysessor cytototyet
                                                                       120
assastacas asattagoos agratygtyg catycactty tastoccago tactogogag
                                                                       186
gotyayyosy gagaatoact tgaggoosyy aggosyayyt tgosytyayy cagaggttya
                                                                       240
gabbatgoos objetospept apagipage sappgefoop socioappic acadasass
                                                                       300
assassages igalosgago Cacasataca gassacotig agicacogag ogaigass
                                                                       358
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ticigicceo acceatotta gagototgas agastitigio titiaastato tittiaatagi
                                                                        80
aacatgtalt ttatggacca aattgacatt ttogactatt ttttoocaaa aaaagtoagg
                                                                       120
tyaalittaag cacactgagi tyygaalitto tistoosaga agacygcacg agcaalittca
                                                                       180
tatitatita agaitgatic catactoogi tittoaaggag astooctgos giotocticas
                                                                       240
aggiagaacs aatactitct stittittit carrettgtg ggaliggact itaagaggtg
                                                                       300
arickassa ascagagaso saatatgtot cagttgtatt aagcacggac ccatattato
                                                                       360
atatteactt assssmentgs thicotytic scottlinge asotherets threstying
                                                                       420
ggassactt agtcaccctg assacccaca sastasetsa sacttgtags tgtgggcaga
                                                                       $ 85°C
argittqqqq qtqqacatig taiqiqtitta aattacaccc tqtsicactq aqaaqctqti
                                                                       540
giaigggica gagaaaaiga atgoitagaa gotgiicaga tottoaagag cagaagcaaa
                                                                       600
ocacatgici cagciatati attattiati tittatgest sasqigaste attivitotg
                                                                       860
tattaatite caeagggist taccotetat trasatgett tgasasseag tgeattgaca
                                                                       720
```

```
780
atgagtigat attititotit aasagaaasa tatsattatg aasgocaaga taatotgaag
congritted bitasaacti titaiqtich qiqqiiqaiq tiqibiqiit qibiqtitor
                                                                       848
attitytigg tittitacit tytkiitigt ittytittyt tityytiidg cataciacat
                                                                       800
quaghitett taaqqaatgi eigiligget aaigtaatta aaghightaa titalatgag
                                                                      280
tgcatttcas ctatgicast ggtticitas tattiatigt gtagaagtac tgglaatiti
                                                                     1920
triatitace staigtitss agagetance giftgstaig titroatgig triatagosg
                                                                     1080
asgitatita titotaiggo attocagogg atalitiggi gittgogagg calgoagtoa
                                                                     1140
stattitgta cagttagigg acagtattoa gosacgootg atagottott tggoottatg
                                                                     1200
tisaniensa sgaccigiti yygatginaa sanaassasa ssassassa sassassasa
                                                                     1260
                                                                      12.05
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totytyatas tyatootyay stagyayyog sigttoaytt aatgyyastt siteytasts
                                                                       120
teatigated agagascatg oiggetacas cheateasac ogasessagt gesittotas
                                                                       180
attititions cascosting signatoring tracagrace artitiques satestions
                                                                       240
sagacasato togasasoost satstautto cetcasacaa asacaacaca attitotocoo
                                                                       300
staatlatea aacageseag ctacttgeet taattttaga gttacteees ttttgtgtgg
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ascatoacec tgotogectt ace
                                                                       363
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                                                                        63
ttagotceac agggtgaagg catgtasaga atgtggactt cigaggaatt ttottttaaa
                                                                      120
segmentas ligesgiasce tiliteatiac iceaggacia viilitygiity segitiatas.
                                                                      180
totagatace totactitit grittigoig itogacagit cacaangace troagcaast
                                                                      240
tacagagtaa aatogtigaa giagiggagg igaaacigaa aiiteasaatt attoigiaaa
                                                                      300
tactataggg aaagaggotg agottagaat cittiggitg ticatgigti cigigotoit
                                                                      380
atcatcacac tgotogacti aca
                                                                      383
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      <211> 699
      <212> DWA
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      <223> n - A,T,C or G
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                                                                       60
aggatgacca tagasattaa gesaatatta atateaantt tiggtgagat iatessiata
                                                                      1.20
agtotquatq otqqqqqqqq atotqqqqqa qqqotqqtqq aaaqtttotq aqqatqqqqa
                                                                      180
geactiging theregoes agreement against the territories cathered
                                                                      240
agoaqcaqca toacacqcot cittqtqqtq toctqctcqc tqqtqqtcaa eqecqtqctc
                                                                      300
teageagler igstacquet graquivaca gregoritet terigorae attoricati
                                                                      368
ggoriggoca igogorigia risiggrago cyriagioco igacasciio caccotgati -
                                                                      420
coggaccoty tagattgggo godaccacca gatcoccotc ccaggoetto ofccctotec
                                                                      488
```

```
Catcagegge cetetaacaa stocctests asaaaagets sagaastsas ogcascooss
                                                                       540
ttatictoto caestiosio satgaascop taccectago acatutgaas totogsitta
                                                                        600
gttaaggaaa tgottaooat ooocoacoo caaccaagtt nitocagact aaagaattaa
                                                                       560
ggtascatca atacctaggo ctgaggaggo atcaccoga.
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                                                                        8.0
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                                                                       120
cattagost ggaagaagaa aigitgatai titaigicag ciattitata aicaccagas
                                                                        180
tgottagoti catgisagoo atciogiati cattagasat aagaacaati itattogiog
                                                                       240
gamagaacti ticaattiat agcatchisa tigcicagga tiitamatti igatmaagsa
                                                                       300
agotocatot tiggoaggag taggaggag ggagagagag ggotocatoc acaaggacag
                                                                       360
agacaccagg gocagtaggg tagotggtgg ctgggatcagt cacacqgac tgacttatgc
                                                                       420
Calgagaaga sacaacctoc saatctoagt tyottaatac sacacaagot catticttgo
                                                                       480
tosogitaca tytootatyt agatomacay caggigacto agggacocay gotocatoto
                                                                       540
- asappased accidented asaptoiop posespeach soipsitant fogsplation
                                                                       890
Catgoricit contituating goragagosa quescutate quesquaque acapterage
                                                                       660
gemytyocat cotystytat geotyaggag geatesceeg a
                                                                       703
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      <211> 700
      <21.2> DEB
      <213> Nomo sapien
      ₹220>
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                                                                       120
tgrægitiga acagaggrag caaggstagt ggitaggggs acggtotots aagsigsact
                                                                       380
georggatet geotoccage totgeragga accapetgeg tggcettgag etgetgaese
                                                                       240
gragasaged contifigual comptehent optotiquam atqaqqamaq qantotagqa.
                                                                       300
accountees tigginings of eachites caquetoeca tetiquacie taichacter
                                                                       360
titicityana cottytaana qaaanaaqty otagootggg caacatggca anaccotyto
                                                                       420
totacasaas atacaaaaat tagttgggig tggtggcalg tgcctgtagt occagcoact
                                                                       480
thousagist tempings quatractic accompany stopmactic cast gages
                                                                       540
agaicaiged acigoacido agodigagia alagagiaag acidigioto aasaacaaca
                                                                       800
acasceaces tgagtgtgoc totgtttoog ggttggetgg ggceccacet ttetgcetot
                                                                       880
ctcagatitg gacgotgosg cotgaggagg catcaccoga
                                                                       700
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      <221> misc feature
      <222> (1)...(484)
      <223> n \sim \lambda, T, C \text{ or } G
```

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                                                                                                                                 60
gatyuctoci caggottyte tyccacaage tactteteta ageteagaaa géoccetty
                                                                                                                               220
sigagggaaa algloctact goactgogaa thiotoagii coatiliaco boccagboct
                                                                                                                               180
pottotadac cagliaaisa attoattoca caagtattia cigattacet gettgigece
                                                                                                                               240
gggectettc tcaggctgam gawggtgggw ggggwgggcg gwwcctgwgg wgccwcctgw
                                                                                                                               300
goowgettia tetttowere atggotoger catetgagag estetecera cictegorae
                                                                                                                               360
cetalogggg catageceag ggalgecoce aggeggeesa ggllagalge glocetligg
                                                                                                                               420
Citigiosgig atgacatace collaguige tiagelygig elegicolgas gaggealoae
                                                                                                                               480
                                                                                                                               484
           <210> 176
           <211> 432
           <212> 088
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toatgocaco caggatgass siggalaggg acconditing appacitiest gaisingtiting
                                                                                                                               1.28
gacaaatgee aggtagegga attestactg stocassast tatocassat asatiticae
                                                                                                                               3.80
coaccatggg acgicatogt iceastomac tottomatgg ocatggggga cacatcatge
                                                                                                                               248
ctcccacaca atogosytti gyageyatyy yayyosayti tatgaasayo cagyyyotaa
                                                                                                                               300
posspoines empsecutor specialite asppreatips recossiste attitue attitues
                                                                                                                               360
atatyccocc toggittict aagaaaggac agottaatgo agatgagatt agootgagga
                                                                                                                               420
ggoatoacoc ga
                                                                                                                               433
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           <211> 788
           <212> DNA
           <213> Nomo sapien
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Catgoiggag Coasgigota acatgooting giicaaggga ingasagtos coogiaagga
                                                                                                                               3.20
tyycastyco aytyysacca cyctycitys gyctetyysc tycatoctsc caccasctcy
                                                                                                                               180
Consactions associated geological coaggaigts tacassatic graphitips
                                                                                                                               240
tacigiteet gitggoogag iggagacigg igticionan occogining iggicaceti
                                                                                                                               300
psytticae paccatigacia cagasataea estituase atpoaccate aactituse
                                                                                                                               360
tyssycicit octygggacs atgtgggctt castgicasg astgtgtctg tesaggstgt
                                                                                                                               &20
togtogtogo sacgitgotg gigacagona aastgacoos ocasiggsag cagciggoti
                                                                                                                               480
cartystems gigatimics ignacoates aggermania agigeogget aigeneetgi
                                                                                                                               540
attygatige caracogote acattycatg caacttyct qagetqaaac saaaqattaa
                                                                                                                               800
togoogtict ggtasaasge tygasgatgg occisaatte tigaagtoig gtgatgctge
                                                                                                                               666
cattyttyst siggificity gossycciat grytyttysy sycticitisg scieticisco
                                                                                                                              726
Itteggfore ittgetatte gigstatgsg sesgaesgit geggigggig teleggetes
                                                                                                                               780
acatocts.
                                                                                                                               788
          <210> 178
          <211> 786
          <212> DMA
          <213> Homo sapien
           <400> 178
tagratytty agreessass cetytyttic tyggagetet gyesgiggeg yatteatagg
Cartiggget gractitgaa Egacacarti ggriftatta gaitractag tititaaasa
                                                                                                                               120
Attitity of the attackage to the action of the attack of t
                                                                                                                               380
tatitaatga ragaasogtt ggtscattic itosigaatg agcitgcatt ciqaagcaag
                                                                                                                               240
Agrotadeas aggoectigt tateastges agticiquet clagaggoca giactologia
                                                                                                                              300
```

gtttcagagc agccagtg castgtgcac tettctag tacacactti atatatat gtgtgtttag tattitag gacactttet tgttgaco gattgttsaa gettaatt cettctgtag tgtcgtag attgaacagt atggootc atgota	gt gtaeggglat gt elgtatgtat gt tagtgcaect gc tigsetatta ec tetgetttgl gg ctottacegg	gesactitgg gessacsiya atticesest atgitesagg agiasaties gigggsasgs	atottaasat asttagtotg tattiatoaa gigosatgig ottttaaast tittastitt	totgtacaca tosasiaigt attgatotas tattoottta gtatttgago coagttgota	365 426 480 540 600 660 720 780
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asseggetat gtoapgit tgtocttott catcocta tashtotaat ciatoago tgggotoaac atgota <210> 190 <211> 488 <212> DNA	to astgotatot go accagaattt aa aataacttit	gottotgito codsgtotoc	ctgctcactg ctccctacet	ttotggattt recettattt	600 660 720 780 796
<213> Homo sa	pies				
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